In the Claims

Please rewrite claim 33 to read as follows:

33. (Amended) The method of claim 31, wherein said $\alpha\text{-MSH}$ is attached to a polyclonal or monoclonal antibody, wherein said antibody acts as an agonist to the bound MC5r receptor.

Please add the following new claims 38-41:

- 38. (New)A method for down-regulating a T cell-mediated autoimmune response in autoimmune disease tissue site in an animal, comprising directly injecting α -MSH or an analogue or derivative of α -MSH comprising an α -MSH receptor-binding portion thereof, into or near the autoimmune-diseased tissue site.
- 39. (New) A method for down-regulating a T-cell-mediated autoimmune response in a tissue site in an animal, comprising:
 - (a) harvesting a tissue sample from the tissue site;
 - (b) treating the harvested tissue sample with $\alpha\text{-MSH}$ or an analogue or derivative of $\alpha\text{-MSH}$ comprising an $\alpha\text{-MSH}$ receptor-binding portion thereof; and
 - (c) implanting the treated tissue sample into the animal.

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- 40. (New) A method for down-regulating a T cell-mediated autoimmune response in autoimmune disease tissue site in an animal, said method comprising the steps of:
 - (a) providing said animal; and
 - (b) directly injecting an effective amount of α -MSH or an analogue or derivative of α -MSH comprising an α -MSH receptorbinding portion thereof, into or near the autoimmune-diseased tissue site in an animal; wherein said effective amount is an amount sufficient to produce an *in situ* concentration in the range of about 30-100 pg/ml.

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- 41. (New) A method for down-regulating a T-cell-mediated autoimmune response in a tissue site in an animal, comprising:
 - (a) harvesting a tissue sample from the tissue site;
 - (b) treating the harvested tissue sample with an effective amount of α -MSH or an analogue or derivative of α -MSH comprising an α -MSH receptor-binding portion thereof; wherein said effective amount is an amount sufficient to produce an in situ concentration in the range of about 30-100 pg/ml; and
 - (c) implanting the treated tissue sample into the animal.

